

Listing of Claims:

This listing of claims will replace all prior listings of claims in the application:

1.-10. (Cancelled)

11. (New) A device for detecting toxic agents in a liquid medium comprising:

a body comprising at least one portion that is submerged into a liquid medium, an inlet for introducing a sample of the liquid medium to an interior of the body, and an outlet for ejecting the sample of the liquid medium;

a first reservoir within said body comprising a first opening in an upper surface of the first reservoir, a second opening present in a sidewall of the first reservoir, and a first reservoir drain present in a base surface of the first reservoir, wherein the inlet in the body is in fluid communication with the first opening of the first reservoir;

a fluorometer for measuring photosynthetic activity of organisms in the sample of the liquid medium, the fluorometer comprising an inlet in fluid communication with the second opening of the first reservoir and a fluorometer drain;

a pump in fluid communication with the fluorometer drain, the first reservoir drain, and the outlet of the body;

a valve system configured to open and close the fluorometer drain and the first reservoir drain; and

an electronics package configured to be in communication with the valve system, the pump and the fluorometer, such that when the sample of the liquid medium is being drawn into the first reservoir the valve system closes the fluorometer drain and opens the first reservoir drain, and when the sample of the liquid medium is being drawn into the fluorometer for the measuring of the photosynthetic activity of organisms the valve system closes the first reservoir drain and opens the fluorometer drain, and when the sample of the liquid medium is being expelled through the outlet of the body, the valve system closes the fluorometer drain and opens the first reservoir drain so that less than 10% of a subsequent sample is mixed with the sample of the liquid medium.

12. (New) The device of Claim 11, wherein the body comprises a bouy.
13. (New) The device of Claim 11 comprising a fuel cell or a battery.
14. (New) The device of Claim 11 comprising a solar panel present on an exterior of the body.
15. (New) The device of Claim 11, wherein the first reservoir comprises a turbulence promoting apparatus.
16. (New) The device of Claim 15, wherein the turbulence promoting apparatus comprises baffles, coils or a combination thereof.
17. (New) The device of Claim 11, wherein the first reservoir comprises an air purge tube extending from the upper surface of the first reservoir to an exterior of the body.
18. (New) The device of Claim 11, wherein the fluid communication between the first reservoir and the fluorometer is a provided by a sample tube comprising a second reservoir, the second reservoir having a volume less than the first reservoir.
19. (New) The device of Claim 18, wherein the second reservoir has a volume substantially equal to a cuvette of the fluorometer.
20. (New) The device of Claim 18, wherein the second reservoir holds the sample of the liquid medium for completion of a dark adaptation cycle of the organisms prior to the measuring photosynthetic activity of the organisms by the fluorometer.
21. (New) The device of Claim 18, wherein the second opening present in the sidewall of the first reservoir is present at a height to prohibit sedimentation to enter the fluorometer.
22. (New) The device of Claim 18 comprising an antennae for transmitting data produced by the transmitter.

23. (New) The device of Claim 18, wherein the fluorometer detects a presence of cyanide, methyl parathion, N'-(3,4-dichlorophenyl)-N,N-dimethylurea or a combination thereof.
24. (New) The device of Claim 11, wherein the valve system comprises a three-way valve.
25. (New) The device of Claim 11, wherein the electronics package stops the pump during the measuring photosynthetic activity of organisms in the sample of the liquid medium.